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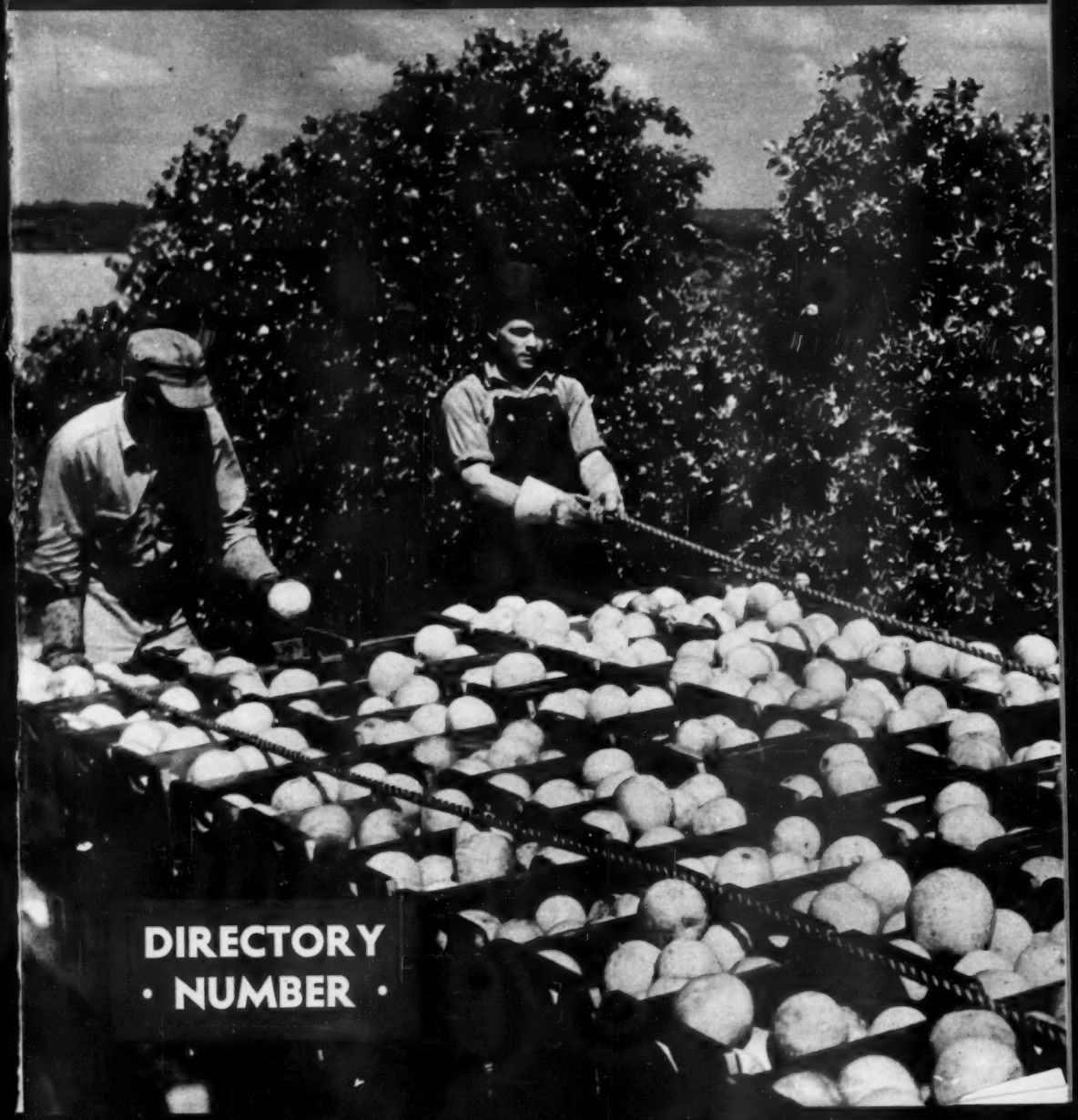
JULY 1951

American FRUIT GROWER



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Richard Pappe
UNION CITY, OKLA.

"I operate a 360-acre grain and livestock farm. For more than 10 years I have been using Firestone tires and I have a set of new Firestone Open-Centers on my tractor today. It is my opinion that they have more pulling power than any other tractor tire."
RICHARD PAPPE
Union City, Oklahoma

Earl Thompson
RICHLAND, MICH.

"I do general farming on 600 acres and have a herd of 100 registered Guernsey cattle. I have used Firestone tires for 13 years and have them on all 3 of my tractors today. I'll stick to the Firestone Traction-Center tires until somebody else shows me that another tire will do a better job."
EARL R. THOMPSON
Richland, Michigan

Firestone
CHAMPIONS for Both

LIKE Richard Pappe and Earl Thompson, you probably have a definite preference for either an Open-Center or a Traction-Center Tire. That's because *you* know the soil conditions on *your* farm.

If your judgment and experience tell you that an Open-Center Tire is better, take a good look at the Firestone Champion Open-Center.

It is the only Open-Center Tire with Power-Arc traction bars, tapered and curved to take a deep, full-traction bite. The bars are curved and flared to cup the soil for a better grip and positive cleaning.

If your judgment tells you that a Traction-Center Tire will do a better job, then there's just one tire for you—the patented Firestone Champion Traction-Center. It's the only Traction-Center Tire on the market and it is the stand-by of more than a million farmers today.

Either of these tires will do a great job for you. They're both Champions.

Listen to the Voice of Firestone on radio or television every Monday evening over NBC

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ALWAYS BUY TIRES BUILT BY FIRESTONE, ORIGINATOR OF THE FIRST PRACTICAL PNEUMATIC TRACTOR TIRE

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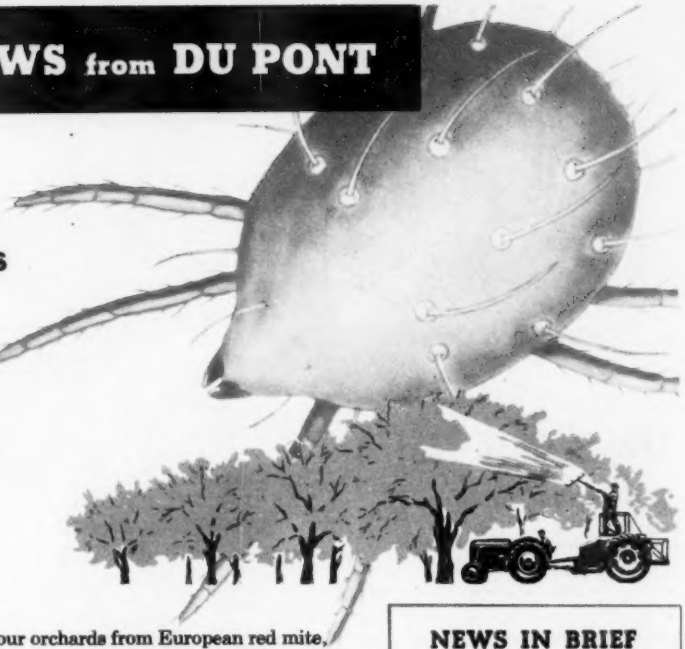
FARM NEWS from DU PONT



Control Mites in Fewer Sprays with DU PONT EPN 300 Insecticide

Now you can protect your orchards from European red mite, Two-spotted mite, Pacific mite, Willamette mite and Schoene mite with effective EPN 300 Insecticide. This new product of Du Pont research gives you new advantages:

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Recommended for pear psylla, EPN 300 also shows excellent results against plum curculio, red-banded leaf roller and Oriental fruit moth.

Compatible. EPN 300 mixes readily with most other pest-control chemicals, and with "NuGreen" nitrogen fertilizer.

See your dealer for EPN 300 Insecticide and for other Du Pont pest-control products. Ask him for free booklets, too, or write Du Pont, Grasselli Chemicals Dept., Wilmington 98, Delaware.

DU PONT EPN 300 INSECTICIDE

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On all chemicals always follow directions for application. Where warning or caution statements on use of the product are given, read them carefully.

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DU PONT

NEWS IN BRIEF

Up to 74% more scab-free fruit is the report from New York State apple orchards where "Fermate" fungicide proved itself far better than sulfur for scab control and fruit yield. "Fermate" controlled scab without injury to foliage, even in the hottest weather.

★ ★ ★

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★ ★ ★

Last year's experience of grape growers again showed how superior "Fermate" is for control of black rot. Some of the highest yields and highest sugar content were reported from vineyards where it was used regularly.

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For cherries, early apples and other early harvested fruit, Du Pont "Marlate" methoxychlor insecticide is highly recommended. It gives excellent control of cherry fruit fly and fruit worm, plum curculio, apple flea weevil, codling moth, Oriental fruit moth and Japanese beetle. And it can be used close to harvest because the residue stays effective against insects, yet it is not hazardous to people who eat the fruit.

★ ★ ★

"Marlate" is ideal for control of insects on vegetables, too: cucumber beetle, Mexican bean beetle, tomato worm, corn earworm, leaf-hoppers, flea beetle, cabbage worms, looper and others. Moreover, "Marlate" is mild on the foliage, safe even on sensitive cucurbits, and residues of it are not hazardous to people.

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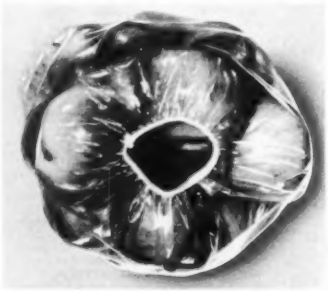
For free samples of Snap-Sacks, see your Shellmar Packaging Counselor . . . or write direct.



Exclusive elastic top provides safe, automatic closure with proper ventilation. Won't spill even when held upside down. Your brand name stays in the home because Snap-Sacks are convenient for many uses.

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JULY 1951
VOL. 71 No. 7

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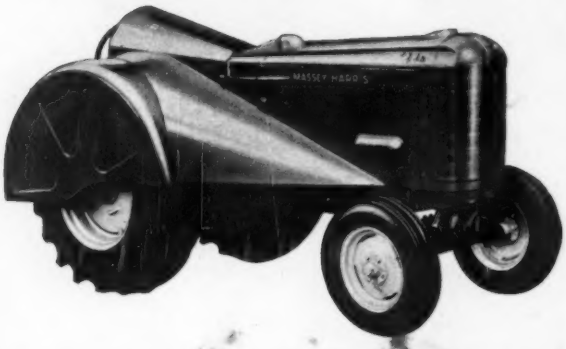

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Co-winner 1924
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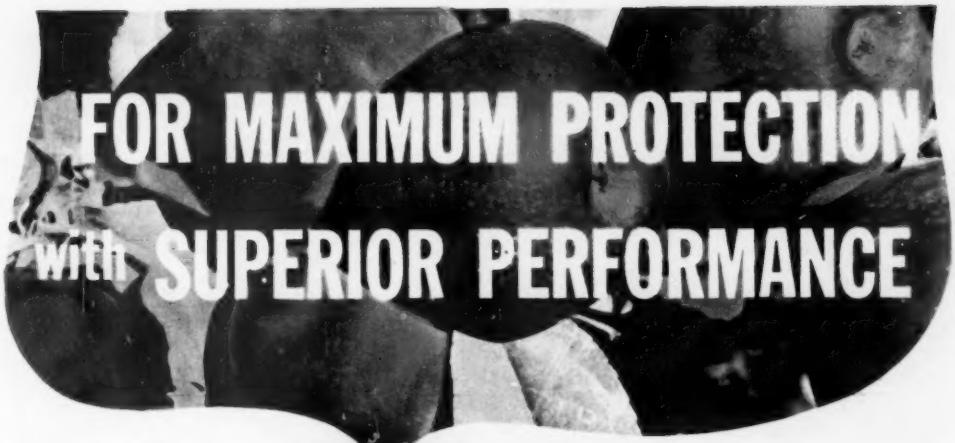

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More top quality apples, peaches, almonds and walnuts.

ADVANTAGES . . .

Non-hazardous, relatively low in cost, easy-to-handle, compatible with most commonly used insecticides and fungicides, and harmless to natural predators.

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the effective fungicide

CONTROLS . . .

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CALIFORNIA
Report No. 764

FORD TRUCK ECONOMY RUN

"We haul 12 million bees for 2⅓¢ a mile!"

—says Herbert Light, Beekeeper
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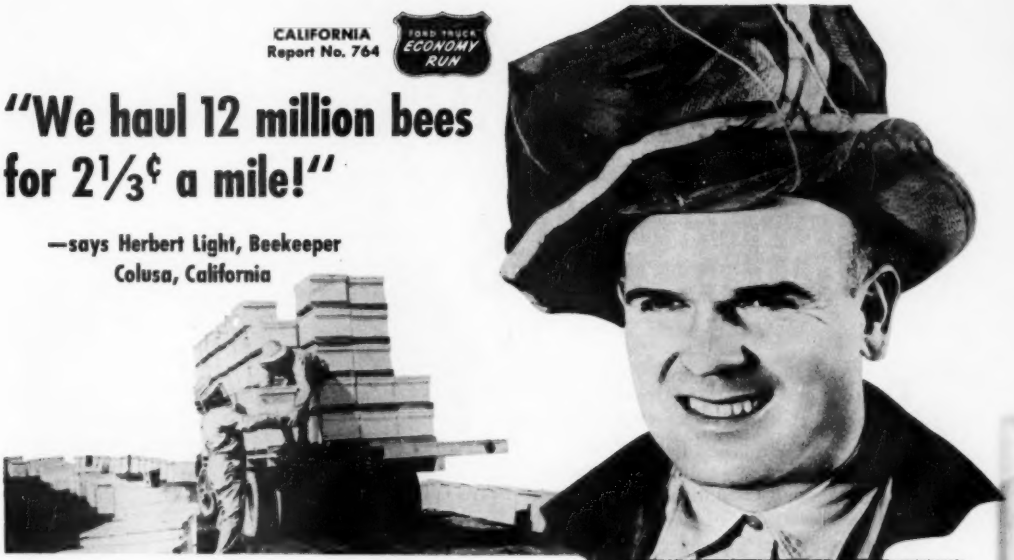

"Our 1950 F-5 Ford with Power Pilot is the best money-saver we've ever had," says Herb Light, one of 5,000 Ford Economy Run operators.

Hiring out bees to pollinate crops is the main business of apiarists Herbert Light and Lester Rowe. During the Economy Run, they kept daily records on gas, oil, maintenance and repairs. Mr. Light says, *"I've had experience with many makes of trucks, but none cost as little to run as our Ford. We drove 17,328 miles, with loads averaging over 4,900 lbs. Our total running expense for 6 months was only $402.08. That's a running cost of only 2⅓¢ a mile."*

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This 6½ ft. Ford Pickup for '51 offers two fine cabs—the 5-STAR and, at slight added cost, the 5-STAR EXTRA—for greater driving efficiency and riding ease on every job. V-8 or Six engine.

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FORD TRUCKS LAST LONGER!

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Unlike conventional systems, the Power Pilot uses one control instead of two, yet is designed to synchronize firing twice as accurately.

You can use regular gas . . . you get no-knock performance. Only Ford in the low-price field gives you Power Pilot Economy!

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Full Line ☐ **Heavy-Duty Models** ☐
Light Models ☐ **Extra Heavy-Duty Models** ☐

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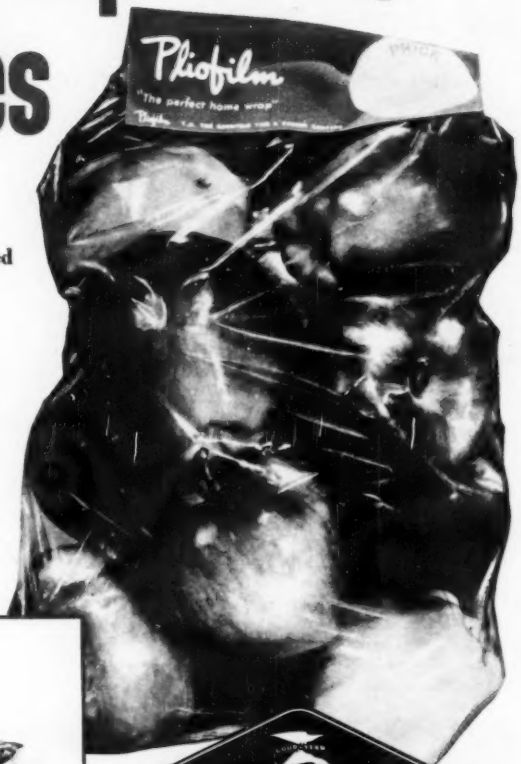

The strongest fully transparent bag yet developed—that's what PLIOFILM has proved to be! No wonder it's first choice with growers, packers and shippers of apples, oranges, onions, potatoes and other heavy produce. Its strength means safer shipments; its transparency shows off quality, speeds sales. PLIOFILM heat-seals easily, is readily adaptable to bagging machinery. PLIOFILM supermarket bags come in most sizes, plain or printed, with tie, elastic or header tops. For information, write: Goodyear, Pliofilm Dept., Akron 16, Ohio.

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PLIOFILM's transparency means speedy sales — customers use less than half as much time to select product.

Tough and tear-resistant, PLIOFILM safely holds as much as 10 pounds. Customers buy more.

Stands rough handling in transit. Less breakage.

Moistureproof, seals in flavor and quality. Insures repeat sales.

GOODYEAR PACKAGING FILM

Good things are better in

Pliofilm

3-way protection against air, moisture, liquids

Pliofilm, a rubber hydrochloride—T.M. The Goodyear Tire & Rubber Company, Akron, Ohio

DON'T FALL *for an Accident*

By LARSTON D. FARRAR

July 22-28 is National Farm Safety Week and a good time to brush up on orchard safety practices.

FARM SAFETY is one subject on which Secretary of Agriculture Charles F. Brannan, the National Association of Manufacturers, President Harry Truman, the insurance companies, farm machinery manufacturers, agricultural chemical associations, the farm publications as a group, and Senator Robert A. Taft all agree in toto.

A crippled farmer means crippled production at a time when we need all the food and fiber and fruit that can be produced. A farmer's family suffers when he is killed or injured. That is always true. But today, conceivably, his nation could suffer—or the citizens of some nation on freedom's side in the battle for independence over the world.

Each year more than 19,000 fatalities occur in rural areas, most of them due to accidents on the farm or in the farm home. How many fruit trees could you prune and pick with 19,000 helpers who aren't going to be here this fall?

Some 1,500,000 farm workers—including owners, managers, tenants, and members of their families—are injured each year. Think how much each of them could save in pain, heartaches, and wages if accidents on the farm could be eliminated. The total monetary loss is staggering, running into hundreds of millions of dollars. And think how much stronger and happier our nation would be if these hundreds of thousands of accidents on the farm could be prevented.

You are the crucial man on this score of safety. If *you* don't practice safety, all the work of chemical, mechanical, and farm engineers will come to nothing. Nobody can be safe for you.

Safety experts emphasize over and over again that virtually all farm accidents *can be prevented.* Traffic judges in many cities post this sign on the walls of their courtrooms: "ACCIDENTS DON'T HAPPEN—THEY ARE CAUSED!" Maybe it would be a good idea for you to put one of these signs up in your home, your barn, and out in the orchards where you and others work.

Here is how some common accidents occur. A farmer made a long reach from an unsteady ladder. The result was a broken ankle that took months to heal properly. A farmer turned into his driveway without signalling properly. The car behind him on the highway smashed into him. A farm worker's skin was injured seriously from chemicals. The playing around unguarded insecticide. A boy is killed by falling from a tractor while "showing off" for some friends. A longtime orchardist suffers a broken pelvis by failing to make sure someone is holding a ladder in a precarious place for him.

"No one in industry can prevent accidents in the use of agricultural chemicals on the farm in the sense that safety representatives can be sent to guard everyone who works with chemicals or to 'police' the habits of the users," Lea S. Hitchner, executive director of the National Agricultural Chemicals Association, commented recently. "Industry's job—and this job would be done whether laws required it or not—is to make known to pesticide and fertilizer users the hazards involved and safety requirements necessary.

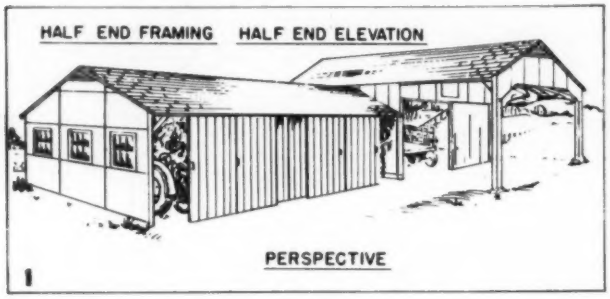
(*Continued on page 23*)

One careless moment can undo a thousand careful acts . . . .

orchardist had not followed simple precautions printed plainly on the container. A farmer was injured in his own back yard, critically, because his wife backed up the car without looking. An aluminum picking ladder was used in an orchard with low electric power lines overhead. The picker was fatally shocked.

Again and again, in going over clippings relating to farm accidents, the same impression of general laxity prevails—the feeling that every farmer believes accidents can happen to someone else, but not to him.

A glance at the clippings from rural newspapers shows that it isn't the machinery that is to blame; it's the people who use the machinery who are careless. A child is injured



1 Perspective views show one-story machinery storage shed with its sliding door arrangement and two-story repair shop with roof protection over concrete apron.

2 Workshop floor plans show layout of ground floor facilities and, on second floor, space for machine parts and spray materials, also woodworking shop.

3 The post-free interior of storage shed makes it easy to store or remove heavy orchard equipment. The shed is especially designed to allow for easy expansion.

MODEL PLANS FOR AN ORCHARD WORKSHOP

Here are plans for an efficient orchard workshop which also has ample space for a machinery shed

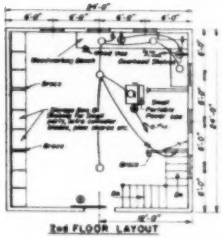
THIS new machinery shed and repair shop is efficiently designed for the average grower, yet it will meet the needs of the large-scale orchard operator, too. Actually, it is two plans in one.

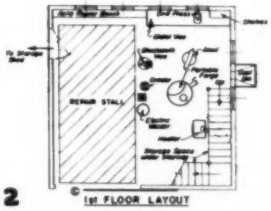
The machinery storage section is the drive-through type with no center posts to obstruct the floor space. Large sliding doors at both front and back make it easy to store and remove equipment. Since the plan is designed in a series of 12x24-foot bays, it is possible to build this structure to meet any fruit farm need. Or, if desired, the repair shop can be built alone and the storage shed added later.

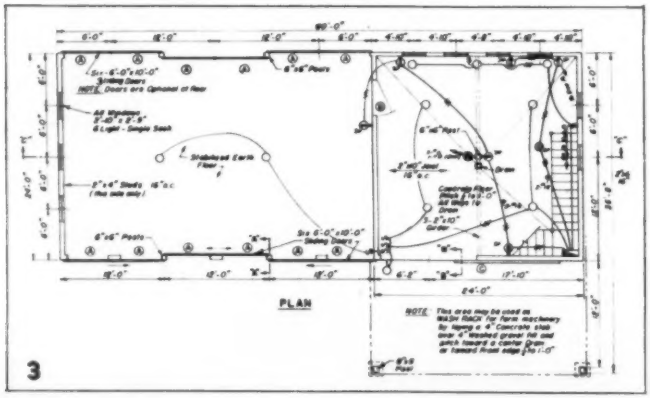
The 24x24-foot repair shop is two stories high. It has a cement floor on the ground level and a wood floor on the second floor. It is laid out to provide all essential shop facilities for major machinery repairs on the lower floor. Stairs lead to the second floor where storage space is provided for machine parts. The balance of the floor is laid out for a well-equipped woodworking shop.

The second floor can also be used to provide a safe, dry storage space for orchard chemicals. Materials can be loaded into this second floor from the bed of a truck through an access door in the front of the building.

The concrete apron in front of the repair shop serves as a clean work surface for making repairs and provides a place to clean machines before painting or rust-proofing them before storage. The roof over this area is high enough to drive under with a load of fruit in an emergency during the harvesting season.







EFFICIENCY THROUGH FUNCTIONAL DESIGN

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AGRICULTURAL ASSOCIATES, INC., ARDSLEY, N.Y.

Building Plans Are Available

Complete working plans for an orchard workshop and storage shed will be mailed to readers upon receipt of $1.00. Write to Plans Dept., AMERICAN FRUIT GROWER, 106 Euclid Ave., Willoughby, Ohio.

"WE MAKE OUR OWN REPAIRS"

How a well-equipped orchard workshop saves valuable time and money for the Allans of Naches, Wash.

By JACK WHITNALL

"THE ACETYLENE cutting torch and the electric welder are the heart of our machine shop," is the unanimous verdict of the four Allan brothers, operators of a 130-acre fruit ranch located near Naches, Wash.

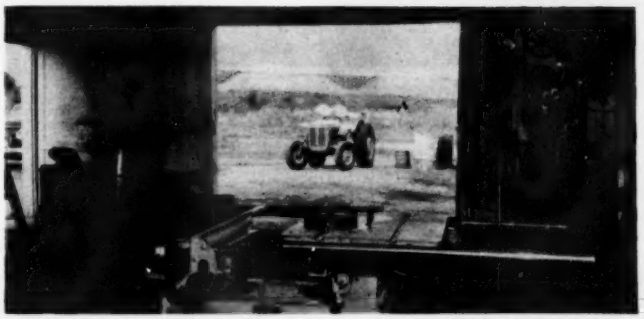
Bob, John, Walt, and Alex Allan are an amazing example of what a family can do in co-operating and operating a medium-sized fruit ranch. The Allan operation started in 1900 when William Allan, father of the four boys, acquired 80 acres of open land. By 1930, the four boys were in full partnership, with any one of the four brothers qualified to step into any job on the ranch. However, Walt's special responsibility is that of chief mechanic and trouble-shooter, Alex does the accounting, and Bob and John act as foremen and supervisors of picking and thinning operations.

The Allan ranch consists of 26 acres of young apple trees, five to nine years old, 80 acres of full-bearing apple trees, seven acres of pears, and 20 acres of cherries. Machinery on the ranch consists of a No. 32 Bean sprayer, a Hercules brush shredder, a Caterpillar D-2, an International Harvester O-4, a Ferguson tractor, implements for the Ferguson, two Allan-built orchard trailers, and an Allan-designed, Allan-built fertilizer spreader and a wood saw which attaches to the front of the O-4 for cutting up prunings and limbs.

The machine shop was built in 1944 at a cost of $950. The 36x24-foot building is of brick construction, has a cement floor, and is as neat and orderly as a Dutch housewife's back stoop. The shop is fully stocked with the usual assortment of tools, wrenches, chisels, hammers, etc., each in its own niche on the wall.

Machines include a Delta double-duty wood lathe, an acetylene welding and cutting torch, an electric welder (manufactured by Glen Roberts Company) with a welding range of 15 to 230 amperes, a 14-inch steel and wood Delta band saw, a small Delta drill press, a Black & Decker one-half-inch portable drill, a Delta table saw and jointer, a Porter-Cable Speedomatic portable saw, and several electric motors of various makes.

(*Continued on page 26*)



A tool for each seed and a place for each tool and part (top photograph) makes it possible for the Allans to do repair jobs quickly and efficiently. The exterior dimensions of the workshop, constructed of brick (center), are 36x24 feet. The door is wide enough (above) so that orchard machinery can be driven under cover for repair.

New LABORSAVING EQUIPMENT

1 The White Mountain apple parer, corer, and slicer, of Goodell Company, Dept. A, Antrim, N. H., has remained "new" for 75 years.

2 Continuous traction for airblast spraying is possible with low-priced Terratrac GT-25 of American Tractor Corp., Churubusco, Ind.

3 Marsh land or cranberry bogs aren't too wet for the Mighty Mouse of Mead Specialties Co., 4114 N. Knox, Dept. F-71, Chicago 41.

4 This four-pound Boxer of International Staple and Machine Company, Herrin, Ill., uses same size staples as large machines.

5 The Ever-Tite Manufacturing Co., Davenport, Iowa, make this hand hoist which operates on both up and down strokes of the handle.

6 A Ford or Ferguson can be readily converted into a crawler with Blackhawk half-tracks made by Arps Corporation, New Holstein, Wis.

7 The Remo-Set maximum-minimum thermometer of Taylor Instrument Companies, 95 Ames, Rochester 1, N.Y., will be available this winter.

8 No mixing, thinning, or stirring is required with self-spraying Spray PAK tractor enamels of Chase Products Company, Maywood, Ill.

9 The International L-170 of International Harvester Co., 180 N. Michigan Ave., Chicago 1, can also be used as a general hauling unit.

10 Model 60 grader of The Trescott Co., Inc., Dept. G, Fairport, N. Y., is made easily portable for moving to any orchard location.

11 This weatherproof, UL-approved, portable lighting fixture has been designed by Stone Mfg. Co., Elizabeth 4, N. J., for farm use.

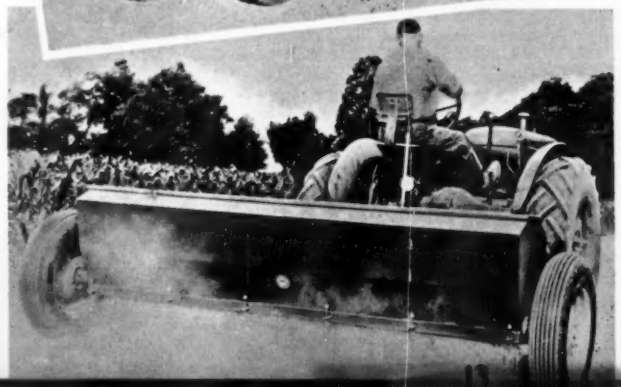
12 Easier, cleaner brush clearing is possible with the Johnson Grubbing Tongs of Re-Bo Mfg. Co., Inc., 331 Madison Ave., New York 17.

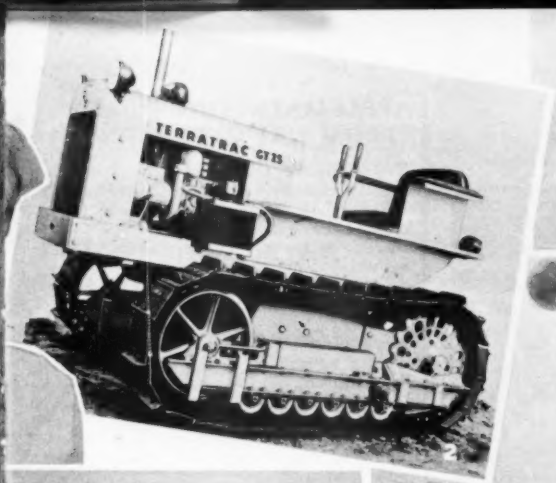
13 The Crop Builder was designed by Judson Bros. Co., Collegeville, Pa., for mixing, pulverizing, and spreading any amount of fertilizer.

14 High pressure centrifugal irrigation pumps made by The Gorman-Rupp Company, Mansfield, O., have heat exchanger cooled engines.

15 Workshop tools become mobile with the retractable caster attachment made by Magna Engineering Corp., San Francisco 4, Calif.

16 The Hartrampf fruit and vegetable sizer has been designed to sell at low cost by Harrah Sales Co., 2014 N.E. Sandy, Portland 12, Ore.





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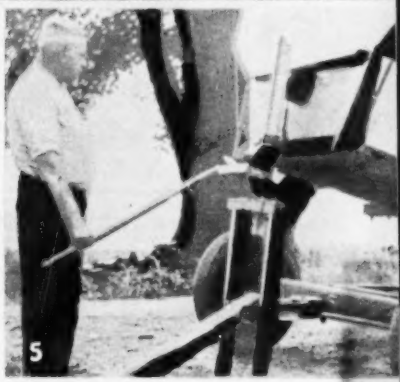

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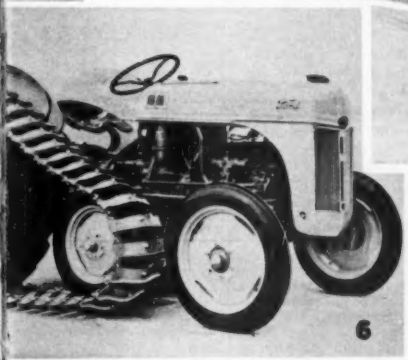

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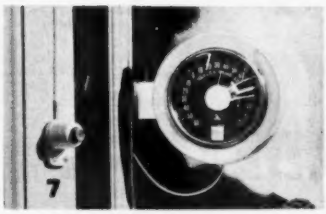

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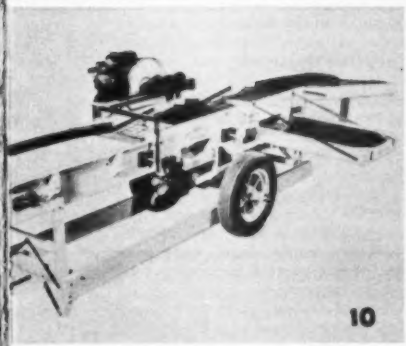

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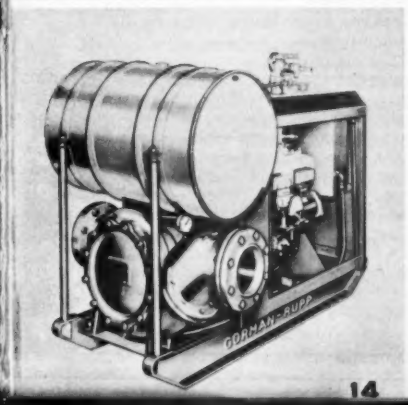

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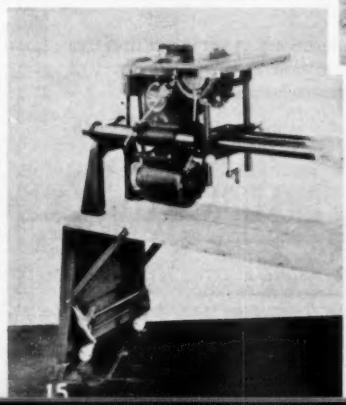

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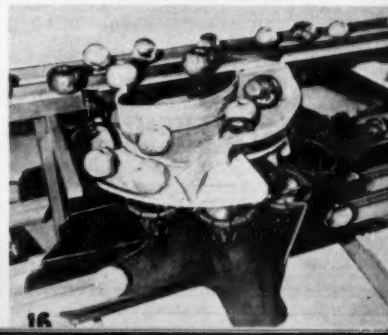

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SHELL BLADEX F-2

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Very fast, 2-way action . . . Shell Bladex F-2 kills by contact and by fumigant action. Actual contact is not necessary. Since many insects swarm on lower as well as upper surfaces of foliage, this double action accounts for much higher kill than can be obtained by insecticides which kill only by contact.

Emulsifies readily . . . Shell Bladex F-2 is easy to use . . . mixes readily with water and can be applied effectively with ground spray equipment, or as a mist from either ground or aircraft.

No harmful residue . . . since the kill is very fast and the toxic effects disappear in a few hours, Shell Bladex F-2 can be used as required right up to harvest time.

For information on Shell Bladex F-2 call or write your Shell Chemical dealer

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APPLE MARKETING TIPS FROM NAI MEETING

TWO YEARS of large apple crops and relatively low prices have caused some soul-searching and keen analysis among apple growers. The desire to get at the root of the problem was amply demonstrated at the meeting of the National Apple Institute at St. Louis, June 13-15.

One of the main jobs at this meeting is to estimate the apple crop and usually the estimate is made somewhat conservatively. But this year delegates took a more practical point of view with the idea that there is no sense hiding the facts; if there is a large apple crop in prospect growers should know about it.

The opinion of all present was that there will be plenty of apples this year, and the "guesstimate" of the crop was set at 118 million bushels compared to a crop of 120 million last year and 134 million in 1949.

In addition to predicting an apple crop of generous proportions, delegates estimated a good-sized non-commercial or home orchard crop which would have two effects: 1) further increase the size of crop, and 2) make it more difficult to market the commercial crop.

Canner Carryover High

Another disturbing factor is the large amount of canned apple slices and sauce in the hands of processors. It was estimated that the equivalent of 6,600,000 bushels will increase the carryover over last year. Nevertheless, processors present at the meeting predicted they would use 15 million bushels for slices and sauce as compared to 18 million in 1950 and 15 million in 1949.

On the bright side, Fred Motz of the USDA's Office of Foreign Agricultural Relations said that American apples are wanted badly in Europe and there are good chances for increasing exports to Europe if the apple industry can exert its influence in the proper places. Last year three million bushels were exported compared to a pre-war average of 10 million bushels.

The desire of growers to get at the bottom of the apple marketing problem prompted some pretty weighty questions. Why, for instance, growers asked, did as many apples move at a high price as at a low price in two separate situations at Boston and San Francisco? The inference was that the retailer will push apples harder when he can make a better profit for them. A partial answer was supplied by Professor Max Brunk of Cornell who pointed out that in tests in New York State with identical lots of ap-

ples those at a higher price sold more rapidly than those at a low price.

Delegates differed in their answers to the question, "Has the crop cycle lost its significance in view of three large crops in succession where usually a heavy crop is followed by a light one?" Cameron Garman of New York attributed that phenomenon to good pollinating weather and said that weather will continue to be the dominating factor in the East.

Ben Drew of Massachusetts pointed out that more and more of New England's production is going to McIntosh, which is an annual bearer. Sam Dillon of Maryland said that elimination of marginal orchards, more orchard heating for frost control, milder fungicides, and use of more pollinators in setting out orchards, are insuring steadier production. The use of thinning sprays will also help even out production, others declared.

Midwest Apple Council

Delegates from the Midwestern states of Ohio, Michigan, Indiana, Illinois, Missouri, Wisconsin, and Kansas took steps to form a sectional organization to represent the interests of midwestern apple states on national problems. The new organization will be called the Midwest Apple Council, and R. L. Klackle of Lafayette, Ind., is chairman with Minard L. Farley of Lansing, Mich., vice-chairman. Iowa, Minnesota, Arkansas, and Tennessee, who were not represented at the meeting, will be asked to participate.

NAI's annual award for most valuable contribution to the apple industry was made to Paul C. Stark, former NAI president and vice-president of Stark Bro's Nurseries, Louisiana, Mo.

Frozen Apple Concentrate

Previews of two fine new apple products were presented at the annual banquet. Reuben Benz of Washington distributed samples of the new frozen apple concentrate which is designed to provide a market for off-grade Delicious and which was market-tested this spring in California and Texas. It is a clarified juice.

At the same time, John Chandler of Massachusetts distributed samples of apple nectar, another frozen apple concentrate, privately developed by Apple Concentrates, Inc., of Concord, Mass., an organization conceived and developed by Chandler's son, Nathan, and Jonathan Davis. The apple nectar is made primarily from McIntosh and is a non-filtered juice with Vitamin C added, giving it a pleasing light color. It is now being marketed in the New England area.

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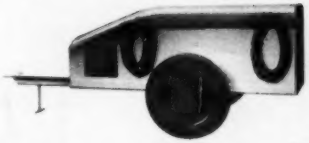

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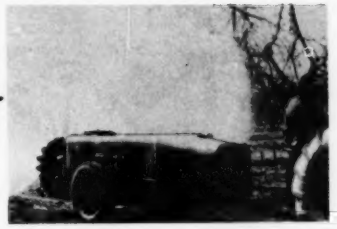

YES, you can have all the time-saving, money-saving advantages of a 1-man blower-equipped sprayer by modernizing your old hose-type rig with a BES•BLO blower. There's a size to fit your needs exactly. Installation is simple, fast, easy—just bolt or weld the BES•BLO to your sprayer frame, connect the BES•BLO manifolds to your pump hoses—and you're ready to spray the modern one-man way!

3 SIZES

STANDARD BES•BLO
7,500 cfm; one-way* spraying

BIG BES•BLO
15,000 cfm; one* or two-side spraying

SUPER BES•BLO
25,000 cfm; one* or two-side spraying

*quickly adjustable right or left

—AND IF YOU NEED A NEW SPRAYER

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Sturdy all-welded steel construction, 200-gallon capacity. Choice of BES•BLO blowers (described above). Designed for superior performance, built for long trouble-free service — yet priced well below the ordinary blower-equipped orchard sprayer!

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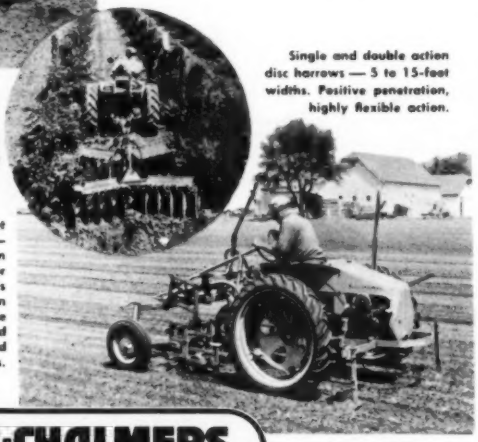
Fruit-AND-Farming Profit . . .

Close-coupled, easy-running A-C mowers are front or rear mounted, hand or hydraulic lift. Easily maneuvered in close quarters to avoid trees and fences.

Plows to fill your need — one or two-bottom. Also two-way model.

Your income fills out nicely when you're equipped to diversify with early and late vegetables, berries or field crops . . . in addition to fruits. Allis-Chalmers versatile implements help you make the most of the good profit in sideline farming. Select from these and other A-C quick-attached power tools — priced for easy home ownership.

Seven-foot mounted field cultivator is your most effective tool for weed eradication and mulching. Shown here on Model CA Tractor.



Single and double action disc harrows — 5 to 15-foot widths. Positive penetration, highly flexible action.

With independent gang cultivator — attached in less than 5 minutes — the Rear Engine Model G is ready to take on narrow-row vegetable work. Other specialized attachments for orchard and field operations.

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Enjoy the National Farm and Home Hour — Every Saturday — NBC Network

THE NEW APPLE GRADES

By TRUMAN NOLD

National Apple Institute

THE FIRST real overhaul of the U. S. apple grades in more than 20 years has resulted in a new set of standards just issued by the U. S. Department of Agriculture and now in effect.

The purpose of the revisions is to make the grade structure more serviceable to growers, shippers, and buyers. The job isn't necessarily finished, and we have suggested that this season be considered a trial run, looking toward further revisions that may prove, after this year's experience, to be necessary and desirable.

Copies of the standards will have wide distribution, through the inspection service, county agents, and industry organizations.

The feeling that revisions were needed had increased for several years. In the opinion of many, the grades were not adequately serving their purpose. Color was assuming greater importance and production of red strains was trying to keep pace. New spray materials and production practices had changed the problem of surface blemishes. Growing processing markets were affecting the packing operation of many growers.

But overriding all this was the rise and dominance of self-service retailing. The shopper could and did grade the apples she bought, and the existing grade basis for trading in apples was not adequate for this change in retail buying.

A large volume of apples is sold upon direct examination; but even in respect to these transactions there were arguments for improvement in the standards—"so we can have a better idea what the market is."

In 1948 at the annual meeting of National Apple Institute, the Virginia delegation presented a resolution which was unanimously adopted, petitioning the USDA to start the procedure for examining the grade provisions and considering revisions.

This procedure had to wait its turn. Meanwhile, USDA authorities on grades and standards became concerned over the increasing volume of consumer units being packaged without benefit of grades.

As a result, when the USDA last August issued its proposals for new standards, these included along with a number of conservative revisions in the regular market grades, provisions for a separate and distinct "consumer grade" structure.

Then began what members of the USDA staff have said was the most thorough and well-ordered industry participation and co-operation in a grade revision in their experience. NAI acted as a message center. The state and area organizations went to work. Discussions at many of the winter meetings followed. Then grade committees, conferences, and round-robin letters carried out the technical and tedious details. NAI brought the points of view together in a conference in February. Further conclusions were reached in subsequent smaller meetings with the USDA staff, which by then was somewhat breathless as a result of the confusion that had been raised.

With practically one voice the industry said "no" to the idea of a separate set of "consumer" grades. They said, instead, "Let's make one set of standards serve across the board, applicable to the regular and to the small-unit packs." With some misgivings as to the way in which the tolerance provisions on small-unit packs would work out, the USDA nevertheless agreed to go ahead.

Grade Recommendations

The recommendations for the single set of U. S. apple grades incorporated in the semi-final publication on May 12 are as follows:

1. A new **Extra Fancy** to provide a classification for premium fruit.
2. A revised **Fancy**. This is considered the most important change, designed to make this grade practical and profitable for general and large volume use. It requires better finish but, on most varieties, not as much color as before. The previous Fancy was generally neglected as being out of normal reach while the U. S. No. 1 classification was often too low for the quality represented.
3. The same **U.S. No. 1.**
4. **Three variants on U.S. No. 1:**

U.S. No. 1 Early—Same as before.

U.S. No. 1 Cooker — For apples meeting all requirements except for color.

U.S. Hail grade.

The reason for the separate classifications is to make the grade names self-explanatory when dealing with retailers, bakers, and other buyers who are not always well versed in grade terminology. One point of view holds that it would be wise to combine the Early and the Cooker grades into one grade, deleting the maturity requirement on summer varieties and adding a two-inch minimum size limitation.

5. The same **U. S. Utility.**

Combination grades are permitted of Extra Fancy and Fancy. Fancy and No. 1, and No. 1 and Utility.

(*Continued on page 22*)

Revolutionary NEW AQUA-JET BLOWER

ATTACHABLE to any make or type of high pressure sprayer

DOWN TO 4 GPM Per Side ... designed especially for use with concentrates or semi-concentrates.

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Permits adaptation of the Aqua-Jet Principle to power sprayers having insufficient capacity to operate the direct-projection Aqua-Jet Boom.

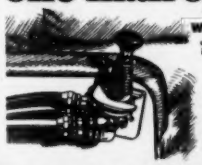
Fully Patented

Adjustable TWIN JETS

Atomization occurs outside (in space) the 6 Aqua-Jet Heads. Pump pressure is converted to long projection instead of choke loss. Jet tips are renewable and interchangeable. 11 different capacities available.

The Aqua-Jet Blower is a wholly new and surpassing kind of orchard spraying equipment. It is a quickly attachable conversion unit that makes any power sprayer give remarkable performance. Exclusive Hurst Hi-Quad hydraulic control instantly operates both sides either separately or together at the touch of a finger. Its dual projection principle produces incredible projection and full coverage patterns. The six impinging jet atomizing heads generate a long-carry air draft due to pump pressure alone—therefore when the blower air-stream is added the billions of tiny droplets receive the extra acceleration that easily carries them 25 to 40 feet!

one man operation with built-in HYDRAULIC Tractor Seat CONTROLS



The exclusive Hurst engineered Hi-Quad Hydraulic Control System gives instantaneous finger-tip control from the tractor seat. Either or both sides of the blower operate on or off, together or separately.

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SAN JOSE, CALIFORNIA

Eastern Distributor: NEWTON CHEMICAL & SUPPLY CO., Bridgeville, Delaware

✓ **Can you hitch up sitting down?** You can with the 3-point Eagle Hitch and hydraulic control of the low-cost 2-plow Case Orchard and Grove Model "VAO" Tractor. Latch on in a minute *right from the tractor seat.*

✓ **Switch implements in a jiffy?** You can make quick change of rear-mounted Latch-On tillers, tandem and offset disk harrows, bedders, furrowers, 7-foot mower—all hydraulically controlled—on Case Model "VAO."

✓ **Do you have 2-way hydraulic** control of pull-behind implements? The Case "VAO" has it at extra cost. It works with any implement or machine fitted for ASAE standard remote ram.

✓ **Do you get eager power** at all five points? The "VAO" applies power at drawbar, belt, power take-off, rear-mounted implements, and hydraulic control—standard for mounted implements, extra for trailed implements.

Straight-line power take-off, centered and at the right height, goes straight back with minimum kinking, vibration, telescoping, minimum wear and tear on universal joints. Operates mower, sprayers, other power take-off machinery in its power range. Many comforts and conveniences for driver. Built-in fuel and upkeep economies for the long pull. Notice the low height, smooth shielding for protection of both driver and trees. See your Case dealer for demonstration.

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NAME_____

POSTOFFICE_____

RFD_____ STATE_____

NEW APPLE GRADES

(*Continued from page 21*)

The varietal table has been revised and numerous changes made to improve definitions.

Color Requirements

The following will serve as an example of the change in color requirements in the new standards as compared with the old:

Red Sport Varieties

New Standards	%	Old Standards	%
U. S. Extra Fancy	75		
U. S. Fancy	50	U. S. Fancy	50
U. S. No. 1	25	U. S. No. 1	25

Regular Delicious

U. S. Extra Fancy	50		
U. S. Fancy	25	U. S. Fancy	33
U. S. No. 1	15	U. S. No. 1	15

McIntosh

U. S. Extra Fancy	66		
U. S. Fancy	33	U. S. Fancy	50
U. S. No. 1	25	U. S. No. 1	25

The two top grades in the new standards—the U. S. Extra Fancy and the U. S. Fancy—compare closely with the prevailing grades in the West bearing the same names.

It isn't necessary to agree fully with the reaction of one grower who, upon seeing the first proposals last fall, stated:

"I say NUTS! It's the packer who needs to be influenced and changed, rather than the grading rules. If he figures he's somehow entitled to include every apple carrying a defect just passing grade, whether old grade or new, he's got a rough lot. Grades are simply an attempt to describe a good salable class of apples in words. If an apple that would technically pass doesn't look good, into the next grade lower it should go, if the result we want is a pack buyers are willing to pay for."

Not one of the many men who devoted time and effort to pondering and arguing these changes has any idea they are cure-alls. They do feel a large gain has been made in tuning up an essential piece of machinery so it will work better, if the operator handles it right. THE END

DON'T FALL

(*Continued from page* 13)

Thus, adequate warnings about special precautions in using the chemicals should be given, and *are* given. But if the user does not take care, if he does not observe safety rules, industry cannot help him."

"Safety is no trifle, but trifles can cause a life to be lost, or saved," said Bon D. Grussing, director of public relations of the Minneapolis-Moline Company, Minneapolis, Minn., an ardent supporter of farm safety. "Every manufacturer wants the farmer to realize that there is a great future in farming—if the farmer is there to enjoy it. Each worker on all farms must learn to become and to continue to be his own Safety Director. He must realize, at all times, that his own happiness and the happiness of others always is at stake."

Be Vigilant!

The greatest dangers to orchardists outside the traffic, home, and other accidents which are common to all careless farmers are those inherent in the nature of his work. A fruit grower works off the ground—spraying, pruning, or picking. He works on a tractor around trees, a particularly hazardous task since he can injure himself against a tree-branch or other obstruction that he cannot see in time. He uses pesticides which he knows are deadly poisonous.

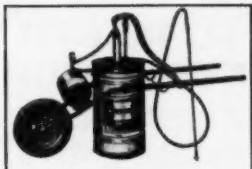
But he is very liable to grow careless and to feel that he, personally, is immune to harm. He uses a chain saw, or other implements which demand constant, careful attention while they are in operation. Because he uses it once, twice, or a hundred times safely, he is liable to relax his vigil. One careless moment can undo a thousand careful acts.

If you are going to be safe all the time, you must do more than think of safety once in a while. You must remember that the older you get, the less agile you are. You must bear in mind that a good night's sleep is the greatest precaution against accidents because it is assurance that you will be wide awake when on the job.

You must remember that lightning can strike you just as easily now that you are past 21 as it could when you were a child and your parents warned you to come in before the lightning and thunder started. The hazards of farming are no respecter of persons. They exist for the old and the young, the rich and the poor, the owner and the hired man.

One good way to bring home the practice of safety is to post signs

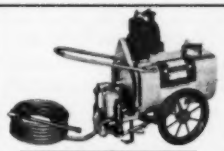
(*Continued on page* 25)



HUDSON PORTA-SPRAYER*
15 gal.—250 lbs. pressure

HUDSON OZARK*
Knapsack Sprayer
6-gal.—100 lbs. pressure

HUDSON PERFECTION*
Compression Sprayer
4-gal.—75 to 85 lbs. pressure P.S.I.



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15 gal.—Up to 400 lbs. pressure—4 G.P.M.

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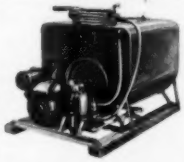
30 or 50 gal.—Up to 400 lbs. pressure —4 G.P.M.—trailer hitch available



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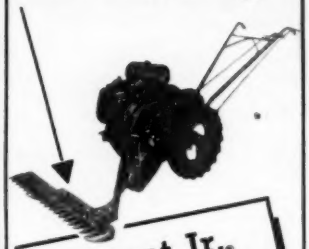

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DON'T FALL

(*Continued from page 23*)

in your barn, your repair shop, or your storage shed. Such signs serve as a constant reminder and actually do make employees think twice before undertaking a hazardous job. Another way of cutting down your farm accidents is to make a chart showing all the farm activities in which you engage, and listing the obvious potential ways in which you, or your assistants, may be injured. Then drill into yourself and into them the necessity of guarding constantly against these hazards.

Another method is to formulate a safety engineering program by listing all equipment, checking it thoroughly to be sure it is in perfect working order, and also inspecting farm roads, buildings, and areaways for potential hazards. Eliminate objects that will fall when tilted slightly, implements such as hoes that are lying around for someone to trip over, steps or other parts of buildings that may have become rickety through lack of repair or are not safeguarded with handrails, and dark areaways in which an electric light would be most helpful in the early morning or at dusk.

Remember, your safety is up to you. Many a careless farmer who was worrying about the fate of the world or the state of the nation last year isn't here now even to pan the politicians. The accident he wasn't worried about (the one *he* could have prevented) was the one he couldn't live through. THE END.

CALENDAR OF COMING MEETINGS AND EXHIBITS

July 12-13—National Cherry Festival, Traverse City, Mich.—A. E. Mitchell, Dept. of Hort., East Lansing, Mich.

July 19—Massachusetts Fruit Growers Association summer meeting, View North Orchard of G. S. Gay, association president, Palmer.—W. R. Cole, Sec'y, Amherst.

July 20—Oregon State Horticultural Society Field Day, Medford.—C. O. Rawlings, Sec'y, Corvallis.

July 25-26—Pennsylvania State Horticultural Association summer meeting, 25th, Arendtsville, Adams County; tour, 26th, Franklin County, orchards of Bream and Hebe, S. A. Heisey & Sons, and Gillan Bros. J. U. Ruef, Sec'y, State College.

July 27-29—Hopkins, Minn., Annual Raspberry Festival. Queen to be crowned.—Lee McNally, Chairman, Hopkins.

Aug. 1—Indiana Horticultural Society summer meeting and orchard tour, Johnson Orchards, Mooresville.—Ray Klackle, Sec'y, West Lafayette.

Early Aug.—New York State Horticultural Society summer meeting, Geneva Experiment Station.—D. M. Dalrymple, Sec'y, Lockport.

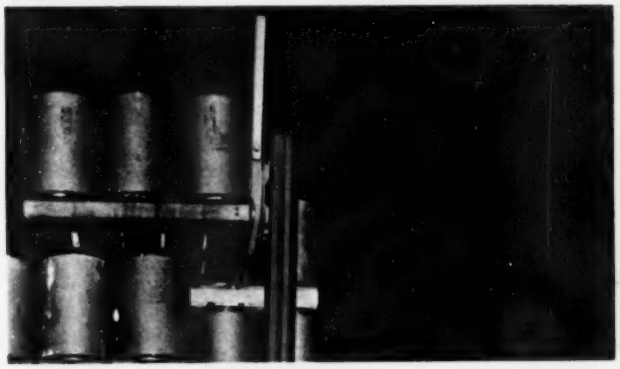
Aug. 6-7—South Dakota State Horticultural Society annual meeting, Yankton, with H. N. Dybvig, President, presiding.—W. A. Simmons, Sec'y, Sioux Falls, S. D.

Aug. 12-15—International Apple Association annual convention, Hotel Statler, New York City.—Samuel Fraser, Sec'y, 164 East Ave., Rochester 4, N. Y.

Aug. 16—Orchard Day, Ohio Experiment Station, Wooster, Ohio.—C. W. Ellenwood, Sec'y, Hort. Society, Wooster.

Aug. 28-29—Northern Nut Growers Association 42nd annual meeting, Illini Union Bldg., University of Illinois, Urbana. Annual tour, Aug. 30-31.—J. C. McDaniel, Sec'y, Hort. Field Lab., Urbana, Ill.

Cash in on overhead-



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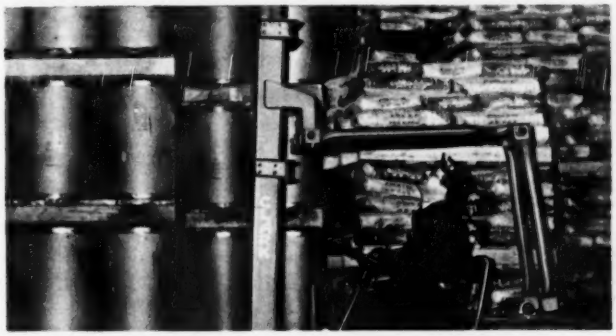

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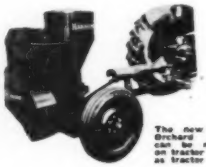

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A big line of high pressure sprayers for weed control, cattle and general purpose use delivering from 4 to 12 gpm at 400 psi.

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Hardie brings you advanced machines which will squarely meet your need for more speed, less labor, greater efficiency in all pest control operations. Hardie gives you the largest line of concentrate applicators and air blast sprayers for dilute and concentrate applications—40,000, 20,000, 19,000, 14,000 cu. ft. of air per minute at 165 to 120 MPH—serving both large and small acreages.

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WE MAKE REPAIRS

(Continued from page 15)

"Modifying machinery and repairing machinery are the main jobs of our machine shop," Walt Allan said. "You cannot build large machinery, such as sprayers and dusters, cheaper than you can buy it. We did build a pruning platform, but we needed it and we couldn't buy one. If that machine were manufactured commercially, it undoubtedly would be much cheaper to buy."

Machines Are Built for the Job

While the Allans will not manufacture or attempt to manufacture a machine which is on the market, such as a duster or sprayer, they don't hesitate to manufacture a machine which they think they need—or to modify one which they think needs modifying.

The portable pruner was built because none was manufactured, but it cost plenty. A portable wood saw was manufactured in their machine shop. Wood saws are available but none which is portable or which fitted the front of the O-4. Mounted on the front of the O-4 and belt-driven, the saw is driven out into the orchard and the job of cutting the limbs is done right on the spot. "Piled up limbs are difficult to handle, difficult to collect, and difficult to saw on a stationary saw," Walt reported, "but with this portable rig, we've solved all our problems."

The Allans also manufactured a stump mover. "We always had to drag our tree stumps and this made deep paths. We figured out this hand-operated winch mounted on rubber-tired wheels. We can slip a chain around the stumps, pick them up even if they weigh 2,000 pounds, and move the stumps any place on the ranch at high speed.

"Fertilizer spreaders are available, but we didn't like their design, so we built our own," Walt said. "It holds 800 pounds of fertilizer, spreads the fertilizer evener and faster. But it did cost more to manufacture than to buy a commercial machine." The Bean sprayer was modified shortly after it was bought. "We felt that the machine needed more ventilation, so we ventilated the doors and gave the radiator a coarser mesh."

No Lost Time

"Our ranch is almost 15 miles from the repair shops in Yakima," Alex Allan stated. Alex with his sister, Mrs. Grace Lazerson, handles all the books. "Transportation of equipment for each minor job can mean hours lost—plus, perhaps, two to four to

six days in the shop waiting for those repairs," Alex said.

"For instance," he continued, "four years ago we bought 500 feet of sprinkling pipe. We felt that we needed different couplings. With our cutting torch we lifted off those old couplings and had the new ones welded on in one and one-half days. Of course, the actual man hours in the machine shop would have probably figured out the same, but the labor cost in a regular shop would have been double, and we also would have had the problem of transporting that pipe to Yakima. We estimate that the job cost us perhaps $35 in our own shop and probably not less than $60 if we'd taken it into Yakima.

"One of the most vulnerable pieces of machinery on the ranch—the mower—was in the shop 25 times last year for from less than a quarter of an hour up to two hours on each visit. The total mower repair bill for the season was $36.55 in our shop; but if that mower had been carted off to town even 10 times during the season the repairs would have cost triple that amount.

"Then, too, whenever we have a slack period, we slip our machines into the shop for a thorough checking over, perhaps pulling the timing gear cover on the tractors—a three or four-hour job. Not much time is lost when we do it here on the ranch, but a day or perhaps two days would be lost if we took the tractor into town."

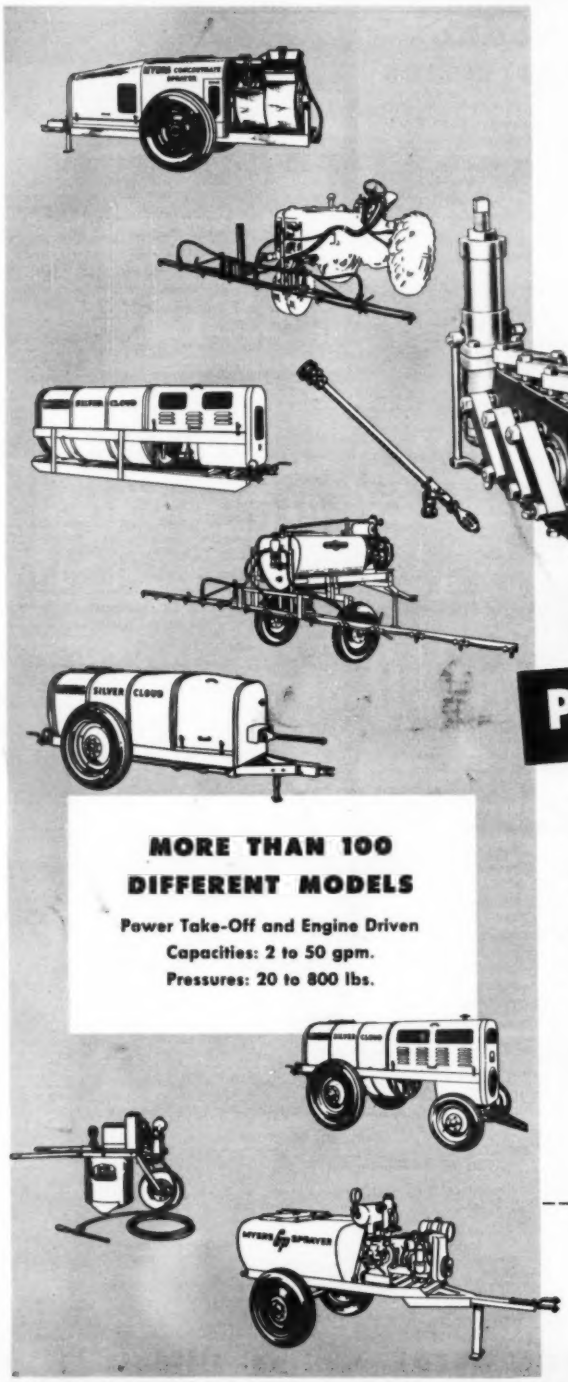
Repair Costs for the Season

To sum it up, the Allans, figuring their own labor in the shop at $1.25 an hour, and with Walt Allan furnishing most of that labor, spent 583 man hours in the shop last year—a total of $728.75 on repairs for their farm machinery. Many small jobs were performed in the shop that were not recorded, of course, but, on the average, each job down to one-fourth hour was booked. Tractor repairs were confined to the replacing of the clutches in the O-4 and the D-2, plus body repairs; but the Allans are seriously considering doing their own motor repair work in the future.

Some construction work done in the shop was not recorded, such as the building of forms for a cold storage warehouse and the construction of tenant houses. The acetylene torch and electric welder are used in hundreds of minor repairs and modifications, and one is almost useless without the other, in the opinion of the Allans. They feel, too, that with the machine shop, many repairs are made immediately which might otherwise be put off until later if the work depended upon a commercial shop.

THE END

JOHN DEERE, Moline, Illinois



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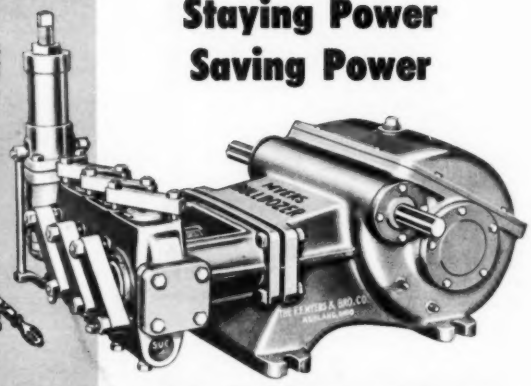

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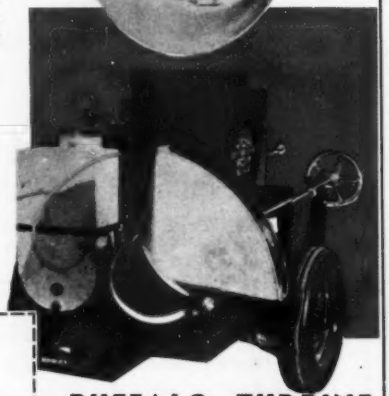

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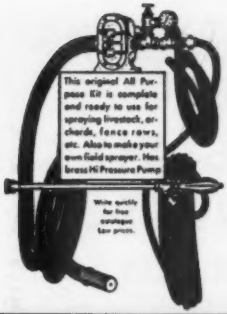

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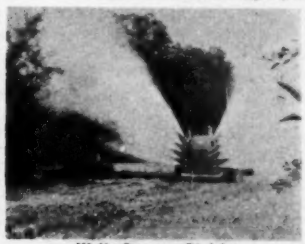

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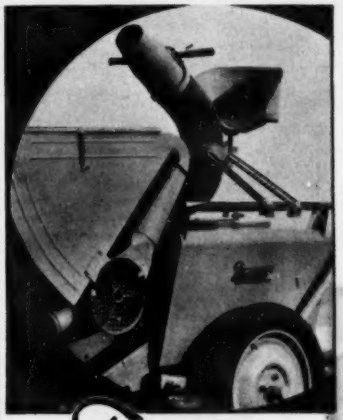

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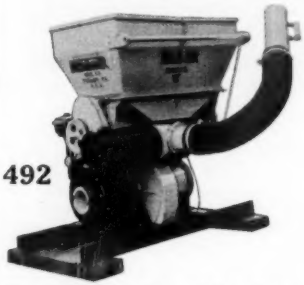

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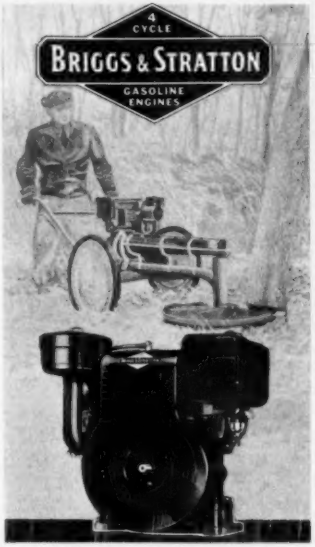
Novo Engine Co., Lansing, Mich.
D. W. Onan & Sons, Inc., Minneapolis, Minn.
Power Products Co., Grafton, Wis.
United States Motors Corp., Oshkosh, Wis.
Waukesha Motor Co., Waukesha, Wis.
Wisconsin Motor Corp., Milwaukee, Wis.



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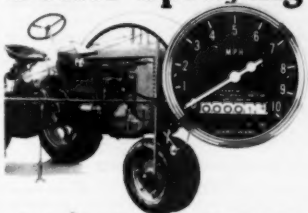

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Friend Mfg. Co., Gasport, N.Y.
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W. L. Hamilton & Co., Bangor, Mich.
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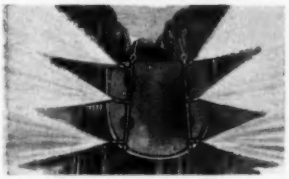

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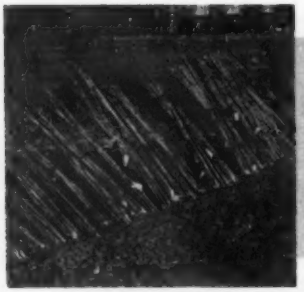

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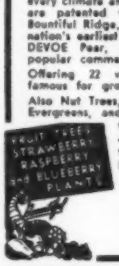

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Rootstock Material

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California Nursery Co., Niles, Calif.
Farmers Wholesale Nursery, Smithville, Tenn.
Mount Arbor Nurseries, Shenandoah, Iowa
Virginia Tree Farm, Woodlawn, Va.
Willis Nurseries, Ottawa, Kans.

Seeds

Allen's Nursery & Seed House, Geneva, Ohio
Berry Seed Co., Clarinda, Iowa
Burgess Seed and Plant Co., Galesburg, Mich.
W. Atlee Burpee Co., Philadelphia, Pa.
Champion Nurseries, Perry, Ohio
Condon Bros., Rockford, Ill.
Herbst Bros., New York, N.Y.
Katzenstein & Co., Atlanta, Ga.
Earl E. May Seed Co., Shenandoah, Iowa
W. N. Scarff's Sons, New Carlisle, Ohio
Tobe's Seeds Ltd., Niagara-on-the-Lake, Ont., Canada
Virginia Tree Farm, Woodlawn, Va.

Strawberry Plants Certified

It is a great advantage to the strawberry grower to get strong, thrifty plants that will make plenty of new plants and lots of large fruit.

Blakemore, Klondyke, Klondyke, Missionary. Postage paid—100, $1.25; 250, $2.25; 500, $4.00. Express collect—1,000, $5.00; 5,000, $23.75; 10,000, $45.00. Robinson, Premier, Dunlap, Aroma, Tenn. Beauty, Tenn. Shipper. Postage Paid—100, $1.25; 250, $3.00; 500, $5.00. Express collect—1,000, $6.00; 5,000, $27.50; 10,000, $50.00.

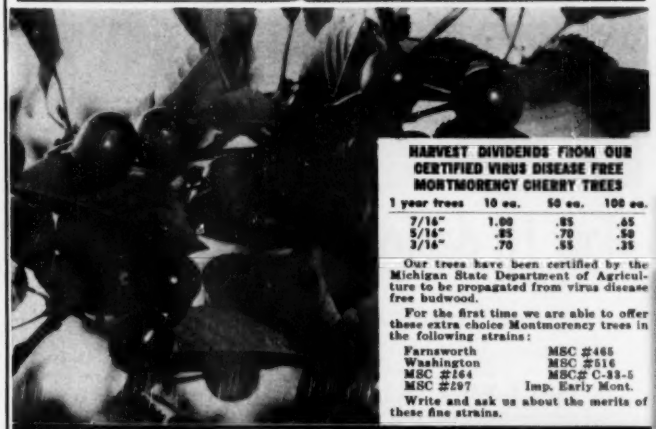
Satisfaction Guaranteed

ROMINES PLANT FARM Dayton, Tenn.

Small Fruits and Grape Vines

Ackerman Nursery, Bridgman, Mich.
W. F. Allen Co., Salisbury, Md.
Allen's Nurseries & Seed House, Geneva, Ohio
Andrews Nursery Co., Faribault, Minn.
Anna Strawberry Nursery, Anna, Ill.
O. A. D. Baldwin Nursery, Bridgman, Mich.
Benton County Nursery Co., Rogers, Ark.
W. A. Bents Nurseries, Cresco, Iowa
Blueberry Acres, Akron, Ohio
Bohlender Nurseries Co., Tipp City, Ohio
A. E. Booth & Son, Weatherford, Tex.
Bountiful Ridge Nurseries, Princess Anne, Md.
Boyd Bros. Nurseries, McMinnville, Tenn.
Boysenberry Plantation, Lapeer, Mich.
Fred Braden, Waynata, Minn.
Frank Brainard, Allegan, Mich.
Brentwood Berry Gardens, Los Angeles, Calif.
Brunes Strawberry Nursery, Pequot Lakes, Minn.
Buntings' Nurseries, Inc., Selbyville, Del.
California Nursery Co., Niles, Calif.
Call's Nurseries, Perry, Ohio
Champion Nurseries, Perry, Ohio
Chattanooga Nurseries, Chattanooga, Tenn.
Cole Nursery Co., Painesville, Ohio
Columbia & Okanogan Nursery Co., Wenatchee, Wash.
Conger's Nurseries, Smithville, Tenn.
Cumberland Valley Nurseries, Inc., McMinnville, Tenn.
Dollar Nursery, Bloomfield, Iowa
Dunham's Grand Mere Nurseries, Baroda, Mich.
East's Nursery, Amity, Ark.

(Continued on page 44)



HARVEST DIVIDENDS FROM OUR CERTIFIED VIRUS DISEASE FREE MORTMORENCY CHERRY TREES

1 year trees	10 ea.	50 ea.	100 ea.
7/16"	1.00	.85	.65
5/16"	.85	.70	.50
3/16"	.70	.55	.35

Our trees have been certified by the Michigan State Department of Agriculture to be propagated from virus disease free budwood.

For the first time we are able to offer these extra choice Montmorency trees in the following strains:

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Write and ask us about the merits of these fine strains.

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Dept. F The Monroe Nursery Monroe, Mich.

STARK STANDS 25% OF YOUR COST on superior new FRUIT TREE ASSORTMENTS . . . to encourage prompt planting!

Sensational *Quick Bearing* Varieties

New U.S. Patent Process

STARK DWARF

and FULL SIZE CHAMPION

FRUIT TREES

COMPLETE HOME ORCHARD ON TINY PLOT OF GROUND PRODUCES ABUNDANT FRUIT FOR TABLE & PRESERVING

Enjoy world-famous Stark Apples, Pears, Plums, Peaches, Cherries, etc.—all the fruit you can eat—practically FREE! Plant your own back yard orchard with world-famous exclusive U.S. Patented, Trade-Marked varieties of amazing Stark Champion Fruit Trees. Luscious fruit of mammoth size and finest flavor. Pure strain and hybrid trees scientifically cross bred and produced for extra vigor and hardiness. Quick bearing . . . often 2nd year! Stark's amazing Fruit Trees now available—302 varieties, many in "dwarfs"—with each tree 5 times inspected by Government and nursery experts to assure peak quality and growing perfection. Plant your own "vest pocket" tree orchard now . . . cut your food bills . . . increase your property value! Rush coupon today for FREE Colorphoto Catalog . . . includes attractive Shrubs, Vines, Roses to landscape your home!

Men—Women Wanted Now to Make MONEY! SPARE TIME —FULL TIME

Take orders for famous Stark Fruit Trees and Ornamentals in your locality. No experience needed to make Big Money. Pleasant, easy work spare time or full time. Check Coupon for big FREE money-making Sales Outfit, yours absolutely FREE!

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John Holding sold $5,16.17 worth of Stark Trees in 1 mo.

FREE GIANT New Colorphoto Your Book Catalog! Rush Coupon for glorious new 1952 STARK YEAR BOOK. Shows miracle fruits . . . also beautiful Stark Roses, Shrubs, Vines and Ornamentals . . . all in actual colors. Get special Fruit Tree Assortments . . . now 25% off regular prices to encourage prompt planting. Mail coupon now!

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Box 173, Town of Louisiana, MISSOURI
LARGEST IN WORLD—OLDEST IN AMERICA
8 BIG NURSERIES — EAST TO WEST

STARK BRO'S Nurseries and Orchards Co. **Mail Coupon!**
Box 173, Louisiana, MISSOURI

☐ Send FREE 1952 Stark Colorphoto Catalog . . . showing Fruit Berries, Ornamentals; Also Stark Home Fruit Garden Guide
☐ Include FREE Home Landscape Booklet & Picture Chart. ☐ Check if you want 25 trees or more to grow for profit

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Street or R.F.D......
P.O...... *State*.....
☐ CHECK HERE! ● MAKE BIG MONEY! ● GET GIANT DEMONSTRATION SALES OUTFIT.

IH servicemen using an electric tachometer to check engine performance.

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IH-trained servicemen use precision equipment to do Blue Ribbon Quality Work in less time...at lower cost

IH dealers have the proper tools and equipment for every service job. This saves waste motion . . . guarantees better workmanship.

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These five give you complete "Care that Counts in the Field"

★ ★ ★ ★ ★ 5-STAR SERVICE

1. IH Trained Servicemen
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Galletta Bros. Hammonton, N.J.
Carl A. Hansen Nursery, Brookings, S.D.
Hatfield Plant Farm, Gowanda, N.Y.
Ideal Fruit Farm, Stilwell, Okla.
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Markham Fruit Breeder, Flora, Ill.
Mayo's Beverly Nurseries, Pittsford, N.Y.
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Tom Ramsey, Harrison, Tenn.
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Rominee Plant Farm, Dayton, Tenn.
W. N. Scarff's Sons, New Carlisle, Ohio
Schroeder Vineyard, Hutchinson, Kans.
South Michigan Nurs., New Buffalo, Mich.
F. C. Stahelin & Son, Bridgman, Mich.
Stark Bro's Nurseries, Louisiana, Mo.
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Stern's Nurseries, Geneva, N. Y.
Steuk Grape-Vine Nursery, Sandusky, Ohio
Stevenson & Cox, Perry, Ohio
Stribling's Nurseries, Merced, Calif.
Sunny Hill Nursery, North Collins, N.Y.
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Waynesboro Nurseries, Waynesboro, Va.
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Whitten Nurseries, Bridgman, Mich.
Wheelock Wilson Nursery, Marshalltown, Iowa
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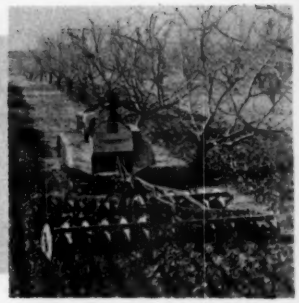
TILLAGE EQUIPMENT



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Price.....$265

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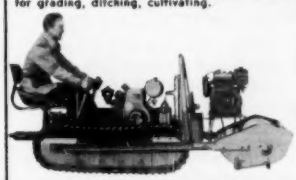
Cuts and shreds tall weeds, brush—forming valuable mulch. With hydraulic lift and bucket ideal for grading, ditching, cultivating.



The "Mighty Mouse" pulls easily in soft mud, sand, where wheels or animals sink. Rush postcard for full details, dealer territory.

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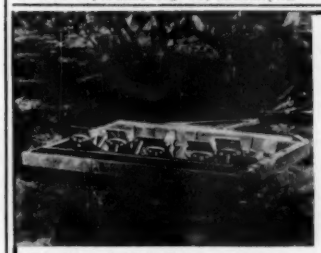

The Edwards Culti-Cutter in operation. Note tendency for blades to cup ground. Blades can be controlled in depth, each rotor operates independently. Does not disturb roots.

Write Edwards Equipment Co., 4312 Main St., Yakima, Washington, for additional information or prices.

Lick Cover Crop or Brush Problem with the
Culti-Cutter

The Edwards Culti-Cutter—the machine you need for cutting cover crop or brush. Use in vineyard, orchard, hop yard or sage land! Cutting widths from 64" to 84" or larger! Pockets from blades aid in irrigation, reduce erosion.

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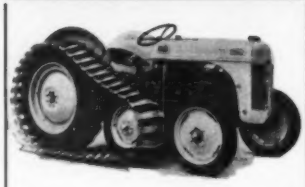
POSITIVE TRACTION *with* BLACKHAWK HALF-TRACKS!



SOLVES ALL TRACTION PROBLEMS—LOOSE SOILS, WET GROUND, ROUGH TERRAIN, HILLSIDES. IDEAL FOR ORCHARDS, GROVES, VINEYARDS.

- All steel construction
- 13" and 16" Track widths
- Drive from any tire tread
- Designed for Ford and FERGUSON TRACTORS
- Use for hauling equipment, grubbing, spraying, etc.

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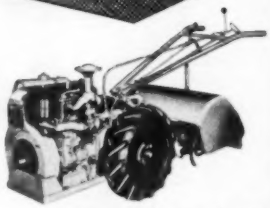
America's Finest! Still America's Best!



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- Wisconsin engine; 2 clutches
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Prepares — in one operation — a level, "spongy," moisture holding bed. Pulverizes—aerates soil. Chops up—mixes fertilizer, cover crop, humus. Powered for perfect work in hardest soils, the Ariens Tiller is America's No. 1 Tiller buy!

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Ottawa Mfg. Co., Ottawa, Kans.

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Mulsifier Implement Co., Detroit, Mich.
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Seaman Motors, Inc., Milwaukee, Wis.
Windolph Tractor Co., Portland, Ore.

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Bombardier Snowmobile Ltd., Valcourt, Que., Canada

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Columbus-McKinnon Chain Co., Tonawanda, N.Y.
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Allis-Chalmers Mfg. Co., Milwaukee, Wis.
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Self-propelled, 1½ h.p. engine. Sturdy and easy to handle. Eliminates most hand trimming. Gets into tight corners, cuts right up to trees or buildings. Write today for free literature.

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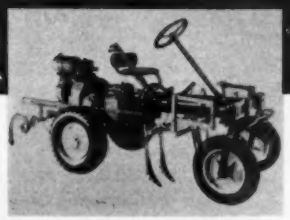

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Transmission fitted with automotive type differential. The tractor has one forward speed variable from 1 to 4 miles per hour and a reverse. All tools controlled with one lever. Rear tires 6.00 x 12 equipped with water filled valves to take calcium chloride solution which adds 120 lbs. weight to tractor.

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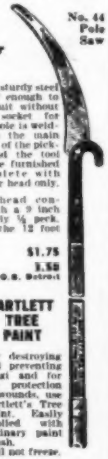

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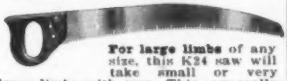

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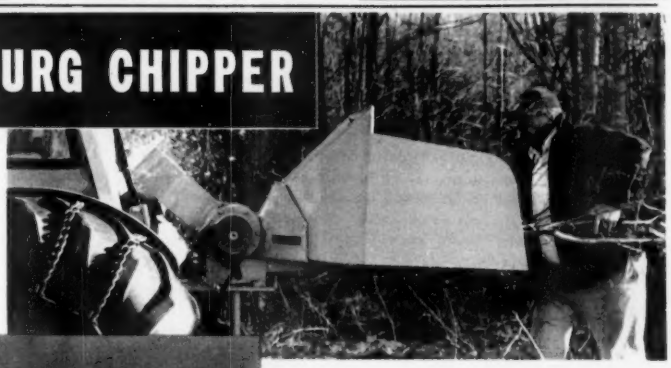

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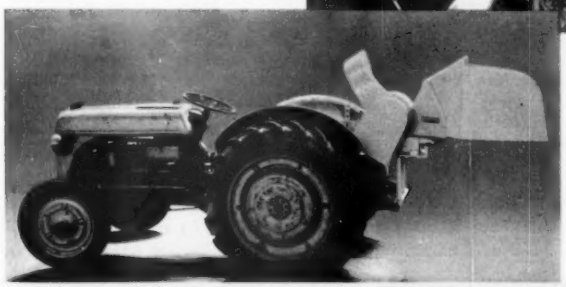

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Tyson Orchard Service, Flora Dale, Pa.
Wilkinson Sword Sales Corp., New York, N.Y.
J. Wiss & Sons Co., Newark, N.J.

Consult Alphabetical Index on page 29

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Hill Top Orchards & Nurseries, Hartford, Mich.
Tyson Orchard Service, Flora Dale, Pa.
Wagner Equipment Co., N. Sacramento, Calif.

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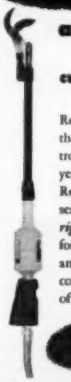

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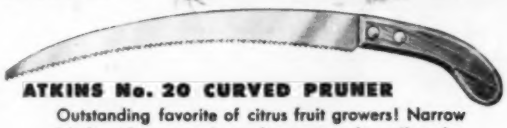

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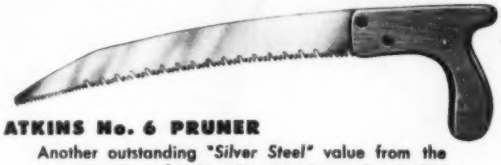

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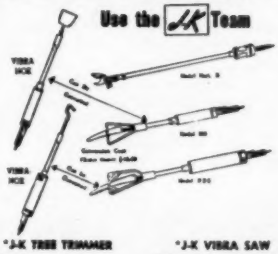

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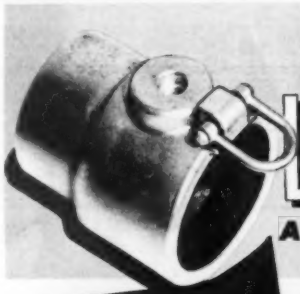

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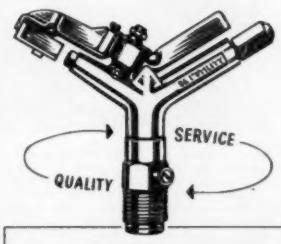

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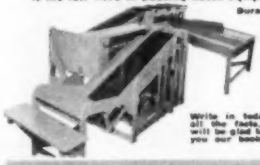

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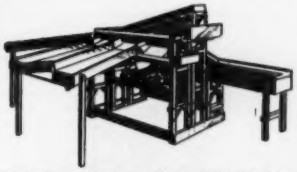

TRESCOTT Model 104 PEACH Machine above will handle up to 60 bu. per hour; de-fuzzes and separates into four ¼" sizes before delivering onto padded tables. See your dealer; or write us for full information and prices.

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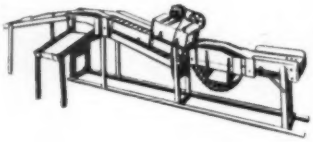

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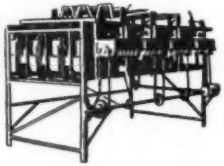

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You improve profits when you improve the appearance of your pack with a John Bean 2-way Cleaner. Your fruit is carefully brush-cleaned, and softly polished with the exclusive 2-way action when you add a John Bean Cleaner to your packing line. All the extra value you add to the crop is extra profit for you.

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Advertisement

From where I sit ... *by* Joe Marsh

The Cow That Can't "Run Dry"

Sandy Johnson showed me his Jersey cows last week. It was a warm day and they were all under the trees near a watering trough.

And darned if one cow wasn't pumping water into the trough! It's a fact—she'd raise the pump handle with her nose, and use her throat to push it down again.

"That's Mabel," Sandy explained as she moved away. "Sometimes they drink that trough dry, and she's learned to fill it again. But the trouble is she doesn't know her own strength—turns the place into a swamp if we don't watch her."

From where I sit, Mabel isn't the only one who sometimes doesn't know where to stop. For instance, people often carry personal opinions too far — like the person who wants everyone to accept *his* choice of political parties, or ballplayers . . . or beverages. I prefer beer with my meals. I know that a lot of other people prefer milk. But nobody ought to insist on "herding" others around to his way of thinking.

Joe Marsh

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Food Machinery & Chemical Corp., Anderson-Barngrover Div., San Jose, Calif.
New Jersey Agricultural Works, Trenton, N.J.
Palmer Cider Supplies, Inc., Cos Cob, Conn.
Papec Machine Co., Shortsville, N.Y.
Queen City Engineering Co., Buffalo, N.Y.
W. G. Runkles Machinery Co., Trenton, N.J.
J. B. Sedberry, Inc., Franklin, Tenn.
Thomas-Albright Co., Goshen, Ind.

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Dunning & Boschert Press Co., Syracuse, N.Y.
Enterprise Mfg. Co. of Pa., Philadelphia, Pa.
A. B. Farquhar Co., York, Pa.
Food Machinery & Chemical Corp., Anderson-Barngrover Div., San Jose, Calif.
New Jersey Agricultural Works, Trenton, N.J.
Palmer Cider Supplies, Inc., Cos Cob, Conn.
W. G. Runkles Machinery Co., Trenton, N.J.
Thomas-Albright Co., Goshen, Ind.

Racks and Strainers, Fruit Juice

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New Jersey Agricultural Works, Trenton, N.J.
Palmer Cider Supplies, Inc., Cos Cob, Conn.
W. G. Runkles Machinery Co., Trenton, N.J.
Thomas-Albright Co., Goshen, Ind.

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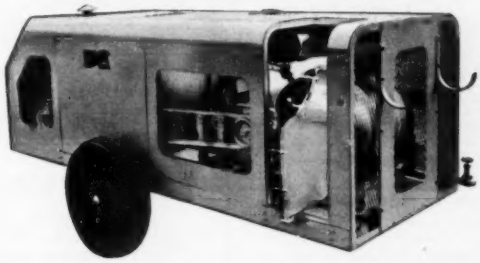

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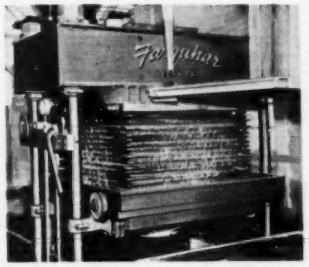

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Rice, Trew & Rice Co., Biglerville, Pa.
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Fibreboard Products Inc., San Francisco, Calif.
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Hankins Container Co., Cleveland, Ohio
Kieckhefer Container Co., Delair, N.J.
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Evansville Basket & Crate Co., Evansville, Ind.
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Marietta Fruit Package & Lumber Co., Marietta, Ohio
Marvil Package Co., Laurel, Del.
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Metropolis Basket Co., Inc., Metropolis, Ill.
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New Albany Box & Basket Co., New Albany, Ind.
Ohio Boxboard Co., Rittman, Ohio
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Roberts-Liggett Co., Metropolis, Ill.
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Evansville Container Co., Evansville, Ind.
Corrugated Container Co., Columbus, Ohio
Fibreboard Products Inc., San Francisco, Calif.
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Friday Pack Co., Portland, Ore.
Fruit & Produce Packing Co., Indianapolis, Ind.
Robert Gair Co., Inc., New York, N.Y.
Gaylord Container Corp., St. Louis, Mo.
Hankins Container Co., Cleveland, Ohio
Hinde & Dauch Paper Co., Sandusky, Ohio
Hoerner Corp., Keokuk, Iowa
Iowa Fiber Box Co., Keokuk, Iowa.
Maryland Container Co., Baltimore, Md.
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Paige Co., New York, N.Y.
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Rollrim Box Co., Benton Harbor, Mich.
Edwin J. Schoettle Co., Philadelphia, Pa.
Simplex Paper Corp., Adrian, Mich.
Fred C. Strype, New York, N.Y.
Traub Container Corp., Cleveland, Ohio
Union Bag & Paper Corp., New York, N.Y.
Wabash Fibre Box Co., Terre Haute, Ind.

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Green Co., Inc., New York, N.Y.
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Marinette & Menominee Box Co., Marinette, Wis.
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New Albany Box & Basket Co., New Albany, Ind.
New England Box Co., New York, N.Y.
Rathborne, Hair & Ridgway Co., Chicago, Ill.
Smeed Box Co., Cleveland, Ohio
Sodus Basket Co., Sodus, N.Y.
Spruce Veneer Package Corp., Puyallup, Wash.
Traub Container Corp., Cleveland, Ohio

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Gaylord Container Corp., St. Louis, Mo.
Leeds Sales Co., Inc., New York, N.Y.
Maryland Container Co., Baltimore, Md.
Ohio Boxboard Co., Rittman, Ohio
PrePackage Sales Corp., Rock Island, Ill.
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Tyson Orchard Service, Flora Dale, Pa.
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Goodyear Tire & Rubber Co., Akron, Ohio
Oneida Paper Products, Inc., Clifton, N.J.
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Traver Corp., Chicago, Ill.

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Georgia Cushion & Wrapper Co., Woodland, Ga.
Merchants Basket & Box Co., St. Louis, Mo.
Pioneer Paper Stock Co., Chicago, Ill.
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Pioneer Paper Stock Co., Chicago, Ill.
Rice, Trew & Rice Co., Biglerville, Pa.
Simplex Paper Corp., Adrian, Mich.
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Hinde & Dauch Paper Co., Sandusky, Ohio
Kimberly-Clark Corp., Neenah, Wis.
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Rice, Trew & Rice Co., Biglerville, Pa.
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Rice, Trew & Rice Co., Biglerville, Pa.
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That's what one dealer said about KYS-PAK. Others all over the country report wonderful results too. Here are some quotes from cards mailed to us . . . names and addresses on request.

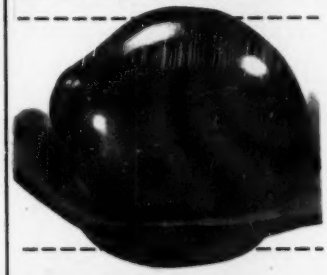
"All apples should be packed this way."

"Before—sold 50 cases per week. KYS-PAK increased it to 75. Don't lose an apple."

"Very handy. Can make a display in minutes and no bruises on apples."

"KYS-PAK apples are the best I've ever handled. The fruit is not bruised when received."

Once a dealer gets apples in KYS-PAKS he always asks for more. No wonder . . . KYS-PAKED apples look better, sell faster and command top prices. Then too, these colorful purple trays can be made into an attractive display in moments.



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Please send information on KYS-PAK for Apples.

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Name of Firm
Address
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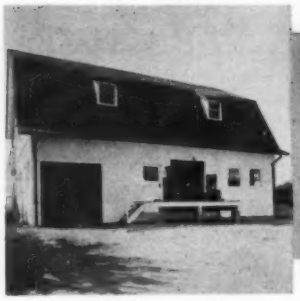

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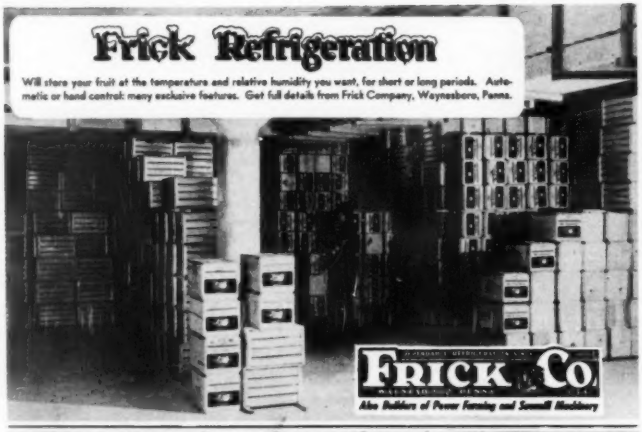

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Armstrong engineers will be glad to cooperate with you in planning the insulation of fruit storage facilities. Armstrong can also supply skilled construction men to apply corkboard. For full information, write today to Armstrong Cork Company, 9500 Concord Street, Lancaster, Pennsylvania.

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John Bean Western Div., Food Machinery & Chemical Corp., San Jose, Calif.
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A. B. Farquhar Co., York, Pa.
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Lamson Corp., Syracuse, N.Y.
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Rapids-Standard Co., Inc., Grand Rapids, Mich.
Standard Conveyor Co., N. St. Paul, Minn.
Trescott Co., Inc., Fairport, N.Y.

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A. B. Farquhar Co., York, Pa.
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Lamson Corp., Syracuse, N.Y.
Mathews Conveyer Co., Ellwood City, Pa.
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Rapids-Standard Co., Inc., Grand Rapids, Mich.
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Trescott Co., Inc., Fairport, N.Y.
Triangle Equip. Co., Inc., Nutley, N.J.

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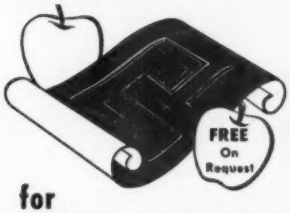

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General Electric Co., Bloomfield,, N.J.
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Philip Carey Co., Lockland, Ohio
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De LaVergne Engine Co., Inc., Philadelphia, Pa.
Diceler Div. General Machine & Mfg. Co., Berwick, Pa.
Frick Company, Waynesboro, Pa.
Frigidaire Div., General Motors Corp., Dayton, Ohio
General Electric Co., Bridgeport, Conn.
General Refrigerators Corp., New York, N.Y.
Harris Ice Machine Works, Portland, Ore.
Howe Ice Machine Co., Chicago, Ill.
International Harvester Co., Chicago, Ill.
Kelvinator Div., Nash-Kelvinator Corp., Detroit, Mich.
Niagara Blower Co., New York, N.Y.
Norge Corp., Detroit, Mich.
Servel, Inc., Evansville, Ind.
Victor Products Corp., Hagerstown, Md.
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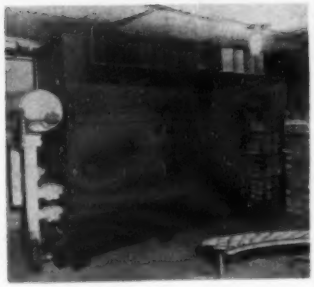

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Bethlehem Steel Corp., Bethlehem, Pa.
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Jones & Laughlin Steel Corp., Pittsburgh, Pa.
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Stran-Steel Div. of Great Lakes Steel Corp., Detroit, Mich.
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Truscon Steel Co., Youngstown, Ohio
Wheeling Steel Corp., Wheeling, W. Va.

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Fleischhauer, Fr., & Son, Hollis, N.Y.
Harshaw Scientific Div., Harshaw Chemical Co., Cleveland, Ohio
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Barrett Div. Allied Chem. & Dye Corp., New York, N.Y.
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Harshaw Scientific Div., Harshaw Chemical Co., Cleveland, Ohio
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Tyson Orchard Service, Flora Dale, Pa.

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Bausch & Lomb Optical Co., Rochester, N.Y.
Harshaw Scientific Div., Harshaw Chemical Co., Cleveland, Ohio
Carl Zeiss, Inc., New York, N.Y.

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Eimer & Amend, New York, N.Y.
Harshaw Scientific Div., Harshaw Chemical Co., Cleveland, Ohio
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B.F. Goodrich

Three tractors disc mile-long rows on the Frank G. Boles wheat farm near Liberal, Kansas. Mr. Boles uses his tractors for all general wheat farming operations, mounts them all on B. F. Goodrich tires. During particularly heavy years, Mr. Boles hires custom cutters to help with the harvesting.

Foreman Lester Trogdon points to the king size Power-Curve cleats on the BFG tire mounted on Frank Boles' tractor—says he is "well pleased with the operation of the new Power-Curve tread." You'll agree with Mr. Trogdon when you see how these powerful tires make quick work of your tractor jobs.

Tubeless Tire protects against blowouts . . . seals punctures

Impartial tests, conducted under the supervision of the American Automobile Association (left), prove BFG Tubeless Tires protect you against punctures and blowouts. Conventional and Tubeless Tires were artificially weakened to force failure. Conventional tires collapsed instantly (center), but Tubeless Tires lost air slowly, allowing an average safe stopping distance of 3.77 miles. Driven over spike boards (right) and pierced through again and again, BFG Tubeless Tires didn't lose even one pound of air.

POWER-CURVE TIRES

"Stand up better than any other make we've used," *says Kansas farmer*

OVER 50,000 bushels of wheat in one crop have been harvested at the Frank G. Boles farm near Liberal, Kansas. Mr. Boles devotes his entire 2,720 acres to wheat and uses his tractors for such jobs as listing, discing and drilling.

Every tractor on this wheat farm rolls on B. F. Goodrich tires. Foreman Lester Trogdon explains why: "We are well pleased with the operation of the new Power-Curve tread. These Power-Curve tires are standing up better than any other make we've ever used."

Power-Curve tires give the extra wear Mr. Trogdon speaks of because the cleats are built higher—actually higher in the center than the cleats of the other two leading makes. Power-Curve cleats can be built higher because their special curve prevents bending and scrubbing in the fields.

Each king size cleat has an arrowhead nose that bites into the soil and holds . . . gives you minimum slippage even in the softest going. Because Power-Curve cleats are evenly spaced from center to shoulder, you get positive traction in reverse as well as forward.

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See this field-leading tire before you buy. You'll choose B. F. Goodrich Power-Curve tires for the savings they give you. *The B. F. Goodrich Company, Akron, Ohio.*

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SEE YOUR NEARBY DODGE DEALER FOR A DODGE "Job-Rated" TRUCK TO FIT YOUR FARM!